

Application No.: 10/004847

Case No.: 57320US002

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A urethane composition consisting essentially of comprising the reaction product of:

- a. An aliphatic polyisocyanate having three or more isocyanate groups; and
- b. A fluorochemical of the formula $R_f\text{-SO}_2\text{N(R}^1\text{)-R}^2\text{-Z}$;

wherein R_f a perfluoroalkyl or perfluoroheteroalkyl group having from 3 to about 6 carbon atoms,

R^1 is a lower alkyl group,

R^2 is an alkylene or heteroalkylene group, and

Z is an isocyanate-reactive functional group, and

- c. an aliphatic monofunctional compound, wherein

said fluorochemical is in an amount sufficient to react with at least about 50% of the available isocyanate groups

~~2. (Cancelled) The composition of claim 1 comprising the further reaction product of an aliphatic monofunctional compound with said aliphatic polyisocyanate.~~

3. (Currently amended) The composition of claim 1 ~~[[2]]~~ wherein said aliphatic monofunctional compound is of the formula $R''' \text{-Z}$, wherein R''' is an aliphatic group and Z is an isocyanate-reactive functional group.

4. (Original) The composition of claim 3 comprising compounds of the formula $(R_f^*)_n\text{A(NHCO-Z'R''')}_{m-n}$,

wherein R_f^* is $R_f\text{-SO}_2\text{N(R}^1\text{)-R}^2\text{-Z'}$,

Z' is the residue of Z,

A is the residue of said aliphatic isocyanate, having valency m,

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R''' is an aliphatic radical, and
n (average) is at least 1.5.

5. (Original) The composition of claim 1 wherein
R_f is a fluorinated carbon chain having from 3 to about 6 carbon atoms,
R¹ is a -H or -CH₃,
R² is an alkylene group having 1 to 3 carbon atoms, and
Z is -OH.
6. (Original) The composition of claim 3 wherein the amount of aliphatic monofunctional compound is in an amount sufficient to react with the remaining available isocyanate groups.
7. (Original) The composition of claim 3 wherein the amount of aliphatic monofunctional compound is in an amount sufficient to react with 15% or less of the available isocyanate groups.
8. (Original) The composition of claim 1 wherein the amount of fluorochemical is in an amount sufficient to react with 75% or more of the available isocyanate groups.
9. (Original) The composition of claim 1 wherein R_f is a perfluorinated alkyl group.
10. (Original) The composition of claim 1 further comprising a hydrophilic anti-staining compound.
11. (Previously presented) A fibrous substrate treatment composition comprising the urethane composition of claim 1 and a solvent.
12. (Original) The treatment composition of claim 11 comprising from about 0.05 to 10 weight percent of the urethane composition.

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13. (Original) A method for imparting stain-release characteristics to a fibrous substrate comprising the steps of:
- (a) applying a treatment composition of claim 12, and.
 - (b) allowing the treatment composition to cure.
14. (Previously presented) The method of claim 13 wherein said treatment composition is applied in an amount sufficient to provide between 0.05% and 3% solids on fiber.
15. (Original) The method of claim 14 wherein said composition is cured at ambient temperature.
16. (Original) An article comprising:
- a fibrous substrate having a cured coating derived from at least one solvent and a chemical composition of claim 1.
17. (Original) The composition of claim 1 further comprising a surfactant.